	r ID 59923 7, 2010 10:15:23 AM							*	. ' ,		Page 1
Item ID: Revision ID:	D412-702-301			Accept			illiği ilil	- 's	etup Star	t	
	Harness Assembly 6/17/2010 Start Qt 6/24/2010 Req'd Q	-	# 1881#1 HB1 #8 # 1881#1 HB4 1		Cust Item I	ID:		A - X	Stop		
Approvals:	Process Plan:	K	Date: 10-log	Tooling: SPC (Y/N):		ate:		R	un Star Stop		
Sequence ID/ Work Center ID	Operation Descript			Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr		\.			· · · · · · · · · · · · · · · · · · ·	•	· · · · · · · · · · · · · · · · · · ·	-		
DSI 9511 ICA-D412-702	A Rev3										
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		esolution:						
NCR:			WORK ORDE	R NON-CONFORMAN	NCE (NCR)		
DATE	STEP	Description of NC		Corrective Action Section		Verificatio		Approval
DAIL	SILP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
,								

Work Order ID 59923

Thursday, June 17, 2010 10:15:23 AM



Page 2

Item ID:

D412-702-301

Accept

Setup Start



Revision ID:

Item Name: Harness Assembly

Start Date:

Required Date: 6/24/2010

6/17/2010 Start Qty: 1.00

Req'd Qty: 1.00

Cust Item ID: **Customer:**

Tool ID

Reference:

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Process Plan:

QC:

Operation

Description

Date: _____

Tooling:

Date:

Run Start

Reject

Oty

Accept

Qty



Date:____

SPC (Y/N): Set Up/

Run Hours

Date:

Tool # Plan

Code

Stop

Stop



Insp.

Stamp

Reject

Number

Sequence ID/ **Work Center ID**

120

Packaging

Memo

0.00

0.00

Packaging

Identify with P/N & CHG# and pack for shipping as per PPP D412-702-301

CHG001 Location:

PPP Rev:

130

QC21- Final Inspection - Work Order Release

0.00



Quality Control

Memo

0.00

10/06/23 th

rospace	e Ltd							
		WO	RK ORDER CHANGES					9
STEP	PRO	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Picklist Print

Thursday, June 17, 2010 10:15:27 AM

Work Order ID: 59923

Parent Item:

D412-702-301

Parent Item Name: Harness Assembly



Start Date: 6/17/2010

Required Date: 6/24/2010

Start Qty: 1.00

Required Qty: 1.00

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IPP Rev:A new issue DD 10.04.30 verified:EC

Component Item ID/ tem Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
93573-7 		Manufactured	No			100	Each	17.0000	1 	3	0/00	/22	
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				ST244			17		_		_		
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					57224		7			L	_		
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Picklist Print

Thursday, June 17, 2010 10:15:27 AM

Work Order ID: 59923

Parent Item:

D412-702-301

Parent Item Name: Harness Assembly

113537 113644

114523

114718

114784

Location

ST300

Start Date: 6/17/2010

Required Date: 6/24/2010

Page 2

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

100

Each

Loc Qty

3146 12

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Thursday, June 17, 2010 10:15:27 AM

Shop Packet Print

Page 2

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NCR:			WORK ORDE	R NON-CONFORMAN	CE (NCR)			
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TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-702 REV. E AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-702 REV. 3

REF TCCA STC SH04-7

REF FAA STC SR01997NY

REF EASA STC EASA.I.M.R.S.00710

ETERENCE ONLY

This service instruction adds several kits equipped with improved inertia reels:

The Dart **D412-702-341** 13-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for all 13 passenger seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the **D412-702-041B** kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-343** 5-Man Forward Facing Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 5 forward facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-043B kit, as detailed in Table 1 of this service instruction.

The Dart D412-702-345 4-Man Shoulder Hamess Kit provides 3-point hamesses with inertia reels and joined lap and shoulder belts for the 4 aft facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-045B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-347** 4-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 4 side facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-047B kit, as detailed in Table 1 of this service instruction.

The Dart D412-702-349 1-Man Shoulder Hamess Kit provides a 3-point harness with an inertia reel and joined lap and shoulder belts for the center forward facing seating position in the aircraft cabin. The kit also contains hardpoints for securing the harness. The harness for this kit meets the requirements of TSO-C114 and replaces the existing lap belts. This kit should be installed similar to the D412-702-049B kit, as detailed in Table 1 of this service instruction.

The Dart D412-702-351 1-man 3-point shoulder harness kits are available for the outboard seats of the 5-man forward facing bench, in Bell 205/212/214/412 model aircraft. The kit can be installed LH or RH. These kits should be installed similar to the D412-702-051B/-052B kits, as detailed in Table 1 of this service instruction.

The Dart D214-702-337 5-Man Aft Facing Shoulder Harness Kit provides 3-point harnesses with inertial reels and joined lap and shoulder belts for the 5-man aft facing seat installed in the Bell 214B/B1 model aircraft. This kit should be installed similar to the D214-702-037B kit, as detailed in Table 1 of this service instruction.

The Dart D205-702-353 4-Man Aft Facing Shoulder Harness Kit provides 3-point harnesses with inertial reels and joined lap and shoulder harnesses for the 4-man aft facing seat installed in the UH-1 model aircraft. This kit should be installed similar to the D205-702-053B kit, as detailed in Table 1 of this service instruction.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-0-01
APPROVED
BY:
D. SHEPHERD (DE # 02)
DATE:
10.03.22
CERT. NO.:
SH04-7
ISSUE NO.:
3

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REV.			DESCRIPTION	BY	DATE
DESIGN		P	DART AERO	SPACE	LTD
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MFG. AF	PPR.	N/A	DSI 9511		SHEET 1 OF 6
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REFERENCE ONLY

INSTALLATION

The Dart D412-702-3XX kits should be installed similar to the kits in Installation Instructions IIN-D412-702 Rev. E or Dart Service Instruction (DSI) listed below:

TABLE 1

Part Number	Description (Install similar to:
D412-702-341	Shoulder Harness Kit	D412-702-041B (IIN-D412-702, DSI 9408)
D412-702-343	Shoulder Harness Kit	D412-702-043B (IIN-D412-702, DSI 9453 [214], DSI 9408)
D412-702-345	Shoulder Harness Kit	D412-702-045B (IIN-D412-702, DSI 9469)
D412-702-347	Shoulder Harness Kit	D412-702-047B (IIN-D412-702, DSI 9408)
D412-702-349	Shoulder Harness Kit	D412-702-049B (IIN-D412-702, DSI 9408)
D412-702-351	Shoulder Harness Kit	D412-702-051B (LH) (DSI 9397, DSI 9408) D412-702-052B (RH) (DSI 9397, DSI 9408)
D214-702-337	Shoulder Harness Kit	D214-702-037B (DSI 9454)
D205-702-353	Shoulder Harness Kit	D205-702-053B (DSI 9460)
ready of hydrography of the	1	
D412-702-301	Harness Assembly	D412-702-101B (IIN-D412-702)
D412-702-303	Harness Assembly	D412-702-103B (IIN-D412-702)
D412-702-305	Harness Assembly	D412-702-105B (IIN-D412-702)
D412-702-307	Harness Assembly	D412-702-107B (IIN-D412-702)
D412-702-309	Harness Assembly	D412-702-109B (IIN-D412-702)
D412-702-311	Harness Assembly	D412-702-111B (IIN-D412-702)
D412-702-313	Harness Assembly	D412-702-113B (IIN-D412-702)
D412-702-315	Harness Assembly	D412-702-115B (IIN-D412-702)
D412-702-317	Harness Assembly	D412-702-117B (IIN-D412-702)
D412-702-319	Harness Assembly	D412-702-119B (DSI 9454)
D412-702-321	Harness Assembly	D412-702-121B (DSI 9454, DSI 9469)
D412-702-323	Harness Assembly	D412-702-123B (DSI 9454, DSI 9469)

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-0-01

BY: D. SHEPHERD (DE # 02)

DATE: 10.03.22

CERT: NO.: SH04-7

ISSUE NO.: 3

DESIGN	q)	DART AEROSPACE	LTD
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CHECKED	4	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9511 s	SHEET 2 OF 6
APPROVED	140.	TITLE	SCALE
DE APPR.	#	NEW SHOULDER HARNESS KITS	NTS
DATE 10.0	3.18	COPYRIGHT © 2010 BY DART AEROSPACE THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRES NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY WRITTEN PERMISSION FROM DART AEROSPACE LYD. WRITTEN PERMISSION FROM DART AEROSPACE LYD.	S CONDITION THAT IT IS

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REFERENCE ONLY

PARTS LIST

TABLE 2

	QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description
	X				1		D412-702-341	Dart 13-Man 3-Point Shoulder Harness Kit
	**	XX					D412-702-343	Dart 5-Man 3-Point Forward Facing Shoulder Harness Kit
•	* * * * * * * * * * * * * * * * * * * *	***	Х				D412-702-345	Dart 4-Man 3-Point Aft Facing Shoulder Harness Kit
	Ţ,	se d tr		Χ.	,		D412-702-347	Dart 4-Man 3-Point Side Facing Shoulder Harness Kit
	7.990-4,27	ನಡ್ 🗸			х		D412-702-349	Dart 1-Man 3-Point Forward Shoulder Harness Kit
	+ . *			fa_		Х	D412-702-351	Dart 1-Man 3-Point Shoulder Harness Kit
ı	1	• 1		1	1		D412-702-059	GROMMET KIT
l	9	5		4	1	1	D3761-1-041	HOOK AND LOOP STRIP (DSI 9408)
ł	2.	1		1 .	Ç.S.		D412-702-301	HARNESS ASSEMBLY (NEW)
ŀ	1*	.1*-		1*	, j		D3573-7	ADAPTER
t	. 1*	1*		1*	10.		D4088-041	SHOULDER HARNESS (NEW)
	4*	4*		4*	- 1		MS24693S272	SCREW
	4*	4*		4*			AN960JD10LL	WASHER
	. 4*	. 4*		4*			MS21042L3	NUT
was art	2	1		1	l		D412-702-303	HARNESS ASSEMBLY (NEW)
ŀ	1*	1*	-	1*	·		D3573-8	ADAPTER
ŀ	1*	1*		1*			D4088-041	SHOULDER HARNESS (NEW)
ľ	4*	. 4*		4*			MS24693S272	SCREW
ı	4*	4*		4*			AN960JD10LL	WASHER
Į	4*	4*		4*			MS21042L3	NUT
ŀ	1	1			1		D412-702-305	HARNESS ASSEMBLY (NEW)
İ	1*	. 1*			1*		D3573-1	ADAPTER
Ī	1*	1*		·	· 1*		D4088-041	SHOULDER HARNESS (NEW)
Ī	4*	4*			4*		MS24693S273	SCREW
	4*	· 4*			4*		AN960JD10LL	WASHER
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ŀ	1	1				1	D412-702-307	HARNESS ASSEMBLY (NEW)
ŀ	.1* .	1*				1*	D3573-3	ADAPTER
ŀ	.1*	1*	-			1*	D4088-041	SHOULDER HARNESS (NEW)
1	. 4*	4*				4*	MS24693S272	SCREW
f	4* **	4*		,	7	4*	AN960JD10LL	WASHER
ŀ	4*	4*				4*	MS21042L3	NUT
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ļ	4,	1					D412-702-309	HARNESS ASSEMBLY (NEW)
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ŀ	1*	1*		:			D4088-041	SHOULDER HARNESS (NEW)
ļ	4*	4*			ļ		MS24693S272	SCREW
ŀ	4* 4*	4* 4*					AN960JD10LL	WASHER
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* denotes that part is included in assembly above

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO#01-0-01

D. SHEPH#RD (DE # 02)

DATE: _______ 10,03.22

CERT. NO. ______ 3

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MFG. APPR.	N/A	DSI 9511	SHEET 3 OF 6				
APPROVED	10	TITLE	SCALE				
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DATE 10.0	3.18	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED ON COMMUNICATED TO ANY OTHER PERSON WITHOUT WITTEN PERMISSON FROM DATA FAROSPACE LT.					

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	1/20,5		1*	1			D3570-1	BRACKET
	1*	L	1*		· · ·		D4088-043	SHOULDER HARNESS (NEW)
	4*		4*				MS24694S50	SCREW
	4*		4*		,		AN960JD10L	WASHER
	4*		4*				MS21042L3	NUT
	1		1				D412-702-313	HARNESS ASSEMBLY (NEW)
	1*		1*				D3570-2	BRACKET
	. 15. ·		1*				D4088-043	SHOULDER HARNESS (NEW)
	4*		4*				MS24694S50	SCREW
	4*		4*		· ·		AN960JD10L	WASHER
	4*	·	4*				MS21042L3	NUT
	1			1	 		D412-702-315	HARNESS ASSEMBLY (NEW)
		2000		1*			D3573-5	ADAPTER
C.V.	11.7	地大江		1*	t		D4088-041	SHOULDER HARNESS (NEW)
	4.11.10	1 43-4		4*	1		MS24693S272	SCREW
	-4*	4 515.22		4*	. ``		AN960JD10LL	WASHER
	4*	<u> </u>		4****	into the		MS21042L3	NUT
	1	San		1	4 4 i		D412-702-317	HARNESS ASSEMBLY (NEW)
	1*	 		1*	-		D3573-5	ADAPTER
	1*			1*			D4088-041	SHOULDER HARNESS (NEW)
	4*	-		4*		 	MS24693S272	SCREW
	4*			4*	 	 	AN960JD10LL	WASHER
	4*			4*			MS21042L3	NUT
	1		1				D412-702-321	HARNESS ASSEMBLY (NEW)
	1.		1*	 	 	 	D3570-3	BRACKET (NEW)
	1.	4-15-	1*	 		 	D4088-043	SHOULDER HARNESS (NEW)
	4*		4*	<u> </u>			MS24694S50	BOLT
	4*		4*		 		AN960JD10L	WASHER
	4*		4*	 	 	-	MS21042L3	NUT
1.1.1	4	260.00		<u> </u>	<u> </u>		IVIOZ TUYZEO	I NOT
	3. 42. 3	letb	1				D412-702-323	HARNESS ASSEMBLY (NEW)
	- e1 e	er l	1*				D3570-4	BRACKET
	1.	-ponzer-	1*				D4088-043	SHOULDER HARNESS (NEW)
	4		4*	7 77	<u> </u>	1	MS24694S50	BOLT
	4*		4*	T	-	<u> </u>	AN960JD10L	WASHER
	4*		4*		,;-		MS21042L3	NUT

* denotes that part is included in assembly above

continued next page...

CANADA CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01
APPROVED
BY:
D. SHEPHERD (DE # 02)

DATE: ____ CERT. NO.: _ 10.03.22 SH04-7 ISSUE NO.:

DESIGN	P	DART AEROSPACE	LTD			
DRAWN	97	HAWKESBURY, ONTARIO, CAN	ADA			
CHECKED'	A	DRAWING NO.	REV. A			
MFG. APPR.	N/A	DSI 9511	SHEET 4 OF 6			
APPROVED	10	TITLE	SCALE			
DE APPR.	#	NEW SHOULDER HARNESS KITS	NTS			
DATE 10.0	3.18	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT				

Dart Ae	rospace	Ltd								
W/O:	,		WO	RK ORDER CHANGE	ES					
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date Q	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQA: _	Date: _			
	R	esolution:	Disposition	n:	QA: N/C Clo	sed:	Date:			
NCR:		,	WORK ORDI	ER NON-CONFORMA	NCE (NCR))				
DATE	STEP	Description of NC Section A	Corrective Action Initial Action Descripti Chief Eng Chief Eng		on B Sign & Date	Verificati Section C		Approval QC Inspector		

...continued from previous page

w and pro-				y					
QTY*-	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description		
2	2					D3542-1	BRACKET		
.7 .	3		4	1		D3571-1	GUIDE		
2	2					D3571-3	GUIDE		
2		2				D3572-041	GUIDE ASSEMBLY		
.12	6		6_	2.		D3578-041	DOUBLER		
2	2					D3610-041	BRACKET		
2	2					D3618-1	CAP		
4	4					AN4-10A	BOLT		
2		2				AN4-16A	BOLT		
4		4				AN4-25A	BOLT		
4 . ,	22 √3 €	4				AN4-27A	BOLT (DSI 9469)		
a. 2	2			1		AN4-44A	BOLT		
2						MS24693S274	SCREW		
- 3¢	3			1		MS24694S56	SCREW		
, 10%	2		8 :	Ì		MS24694S58	SCREW		
4100	7.g. 1		***	1		MS24694S60	SCREW		
26	6	20				AN960JD416	WASHER		
4	- 4					AN960JD416L	WASHER		
12	6	6				MS21042L4	NUT		
24	12		12	4		CR3212-4-4	RIVET		

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-Q-01

BY: D. SHEPHERD (DE # 02)

DATE: 10.03.22 CERT. NO.: SH04-7 ISSUE NO.: 3

DESIGN	P	DART AEROSPACE	LTD
DRAWN	93	HAWKESBURY, ONTARIO, CAI	
CHECKED	-	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9511	SHEET 5 OF 6
APPROVED	10	TITLE	SCALE
DE APPR.		NEW SHOULDER HARNESS KITS	S NTS
DATE 10.0	3.18	COPYRIGHT © 2010 BY DART AEROSPA THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXP NOT TO BE USED FOR ANY PURPOSE OR COMILED OR COMMUNICATED TO ANY WRITTEN PERMISSION FROM DART AEROSPACE LTZ	RESS CONDITION THAT IT IS OTHER PERSON WITHOUT

	ospace Liu							- 13 ·
W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	-	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #: Fault Category:	NCR:	Yes	No DQ	A:	Date: _	

Disposition: _____ QA: N/C Closed: ____ Date: ____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC Section A		Corrective Action Section B	Verification	Approval	A				
DATE	STEP		Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector			
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		and the state of t									
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NOTE: Date & initial all entries

Resolution: